## OVERHAUL The WIRELESS ler Strict Government Regulation

JUR Congress at Wash-Uington and an International Parliament to Meet Next Month in London Will Make Commercial Companies Toe the Mark-Lessons of Titanic Tragedy to Result in Radical Reforms-No More Confusion, Interference or Commercial High-handedness -Amateurs to Be Curbed-A Standard "Distress Wave" to Be Adopted, Also a Universal Distress Signal-All Ships and Shore Stations Must Be Equipped With Emergency Receivers Tuned to Catch Calls for Help-These Ears Will Maintain Eternal Vigilance for Distress Cries Coming Over the Deep-Will Be Mounted on Eiffel Towers to Stretch in a Vast Chain From the Philippines to Washington-Uncle Sam Will Be the Wireless Monarch of Both Oceans and Three-fourths of Earth's Circumference.

BY JOHN ELFRETH WATKINS. HE terrible Titanic humanity. It will emancipate the

month be engaged upon rigid laws to pre- every ship; also that all men employed vent, in future, such a babel of wireless at the wheel or upon watch shall be tongues, such a feebleness of wireless adequately trained to distinguish the in-

radio communication" has lately been re- compose a signal readily distinguishable ported favorably to both houses of Congress. It is carried in a bill carefully any words, sailors fix "S. O. S." in their framed by the wireless experts of the minds as meaning "save our ship."
navy, army and Department of Commerce Each ship and shore station must be tus upon the long-threatening monopoly this cry for help, day and night, over of all the powerful wireless interests not a distance of at least 100 miles. only of America, but of the world; to solute priority" is given to "signals and give distress calls from the sea an abso- radiograms relating to ships in distress;" lute right of way; to prevent the inter- and all wireless stations affoat or ashore

each station and all of its operators must pleted. obtain a federal license; also that all op-



concerns will be allowed to tune their instruments above and below these pitches, but will be prevented from monopolizing too great ranges of wave length when certain narrow ranges will

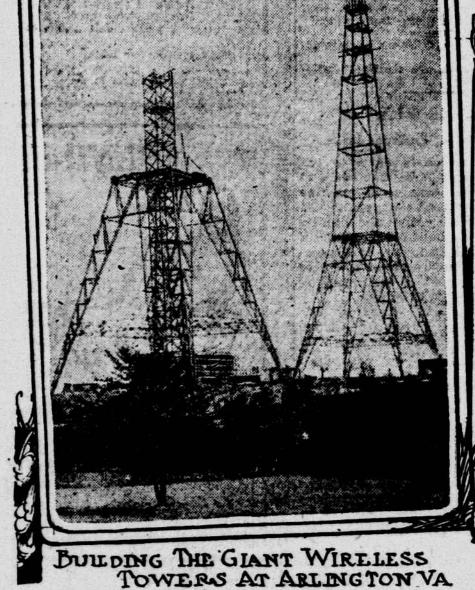
serve their purposes just as well.

WIRELESS OPERATORS'

ernmental regula- official, commercial or private, on sea or tion, assuring eter- on land. Each passenger-carrying vesnal vigilance for sel will be required to keep in operation, distress calls at sea, absolute precedence day and night, an extra instrument tuned for such signals for help and better equiphelp that may come moaning over the relentless deep. This emergency ear will The Congress of the United States is be known as a "special distress receiver," now at work upon and a parliament of the great nations of earth will next side the quartermaster or lookout of ternational distress call, "S. O. S., whenever this special instrument utters

This distress call, instead of the old "C. Q. D." of Jack Binns fame, the bill adopts for America. It will be remem-bered that the Titanic's operators used both signals while she was going down. The "S. O. S." has been adopted by other countries because its three dots, three New legislation for the "regulation of dashes and three dots (... ---...)fore, not chosen because it abbreviates and Labor. It is designed to put a quie- equipped to utter as well as to receive they hear a distress call. Except when The first step toward giving the federal answering or aiding a vessel thus apgovernment an actual hold upon all wire- pealing for help t ey must refrain from tion to this rule, as well as to another ess stations in our territory or upon our sending until all wireless business re- -that wireless stations must use only ships will be a strict requirement that lating to the emergency has been com-

to certain "wave lengths" for carrying its tions near great seaports it will be re- phe has been frequently charged. The messages, also to certain hours of work, quired that they reduce the electrical Under the existing system operators send quired that they reduce the amateurs and all other wireless enout their dots and dashes upon electric energy of their transmitters upon apthusiasts not engaged in bona fide coming and receiving instruments must be be bound to interchange messages limit the bill's framers deem sufficient adjusted, or "tuned" to the same limits whether employing the same wireless for all purposes of amusement or insystems or not. And at important ports struction and will carry messages over struments to receive and send only terferes with the wireless work of mili-



ference of commercial messages with of- are required to cease all sending when only after other means of preventing in- our cities and towns, there now are thou-Distress signals are made an excepthe minimum strength of electrical energy necessary to carry their messages to the distance required. power and wave lengths.

ficial wireless business the measure for-bids the erection of future commercial wireless stations within fifteen nautical miles of a list of important naval and miles of a list of important naval and military stations, not including, however, those at our most important commercial

struments to receive and send only terferes with the wireless work of miliwaves that are between 600 and 1,600 tary and naval cations the first fifteen
meters in length, and will prosecute any
private or commercial concern which
trespasses within these limits. Such time which will be demanded, however,

struments to receive and send only terferes with the wireless work of milimany reforms whose need
wireless dominion over the seas. The key
therefrom will give America east of this constant to the straining living quarters and a
minutes of each hour will be a group of nacles of steel, each 450 feet high and 120
the wireless dominion over the seas. The key
therefrom will stations, which two similar flowers are rising two connected buildmidding the wireless work of milimidding the wireless dominion over the seas. The key
therefrom will stations, which two similar portions whose need
wireless dominion over the seas. The key
therefrom will stations, which two similar quarters and a
finding the wireless dominion over the seas.

As attested by the variously poised
to this vast system will be a group of nacles of steel, each 450 feet high and 120
to this vast system will prosecute any
minutes of each hour will be a group of nacles of steel, each 450 feet high and 120
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to this vast system will prove the steel of the wireless dominion over the seas.

The wireless dominion

sands of these wireless amateurs scatterd of these steel structures will rise 650 feet they will have far greater wireless reach through the country and the govern- from the ground, which means that from than the famed Paris giant, lately conment realizes that some valuable oper- base to pinnacle it will be 95 feet higher verted into a wireless station ators are sometimes developed by this than the Washington Monument itself. From the tiptop of the highest to the diversion. So, to encourage those who and as the hill which this steel steeple apex of each of the lower towers will are really serious in their activities and will crown is higher than the stately fall a cable 460 feet long and another who develop improvement in their art, monolith dedicated to the father of his such cord of steel, 800 feet in length, there is a provision in the measure al- country the wireless reach of this high- will sag between the crests of the twin lowing these to test their skill under a power station will be vastly greater than structures. Upon these great ropes of special temporary license, which, during could be obtained from the Monument's wire Uncle Sam will spread his giant certain hours will waive restrictions as to aluminum apex.

those at our most important commercial spreading legs could easily be built four centers.

These protected points are to be especially a great chain of "high power" radio stations, which will give America radio stations are to be espectations.

The stations, for the distress signal, distress wave of the Passac radio stations and distress signal, distress wave of the Passac radio stations and distress signal distress wave of the Passac radio stations are to be espectations and distress signal distress sign

the White House or the State, War and President and his cabinet could speak, through this station, with our ships and these fickle dots and dashes. armies in almost any corner of the Indeed, the vast chain of high-power

stations of which this, at Arlington, will ing foliage and vegetation. While the be the key will be more tremendous in scope than any similar system planned from Philadelphia, Annapolis and Noror dreamed of by any other nation on folk, and with delicate instruments are

The three bristling towers upon the Potomac will communicate directly with a they are hearing the grass grow and the similar group 2,117 miles away at May blossoms burst from their buds. San Francisco and still another And all of this work has a direct bear-1,780 miles away upon the Canal Zone and visible leagues and leagues across both oceans. And inasmuch as each of these stations will have a range of at least 3000 miles that a canada their distress signals over of at least 3,000 miles, their dots and more than half the range which vesse dashes will be hurled against Africa's in the temperate zones can cover. sandy shore with little difficulty. Each will also bombard a similar group of towers at Pearl Harbor, Hawaii, and this will wad them into its electric gun and aim the fusillade upon the Phillippines, where still another set of these steel Chinese republic. Were there such a station in these oriental regions, as well as upon Africa's sunny shore the system will span three-fourths of that good old to meet in a parliament which will give spinning top-all save a gap of some 6,000

the entire north Atlantic ocean, instead of relaying its messages, as now through Norfolk or Key West. Similarly, Panama will be made the key to the entire south Atlantic, Samoa the key to the south Pacific, Hawail the key to nearly the whole Pacific; Guam, to the west Pacific; Manila, to the waters of China, Asiatic Russia and of our rival, Japan. Communication directly across our continent, from Washington to San Francisco, will be instantaneous, whereas today the commercial land wires must be depended upon. From his sanctum the President will be able to talk with his ships scattered any-

Washington, whether cables are cut or not. Washington will talk directly with

ON SHIPBOARD

WIRELESS OPERATOR.

where between the Canary Islands and calls among all ships within 2,000 miles of one of these high-power stations at night, or within 1,000 miles during the day. He will be unable, however, to hear distress calls sent to him by ships farther away than 400 miles at night or 200 miles during daylight. But he will have upward of fifty small wireless stations and countless ship stations cooperating with these high-power wire-less plants, and the former will relay emergency messages to the nearest group of giant towers.

These differences in range for night and day are due to the fact that the ssioned officer of the navy will sunlight greatly absorbs the wireless regard the natural conditions surrounding the Titanic as especially favorable to because it was cold weather. Winter, as well as darkness, increases the reach of

As old Mother Earth puts on more and more of her spring attire the reach of wireless messages shortens. In their laboratory, at Washington, the navy's experts are now experimenting to accurately measure this effect of increaselectric current. Thus, you might say,

The great chain of high-power stations the dots and dashes and shoot them over described will be constructed under the to a like set of triple towers erected at direction of Rear Admiral Hutch I. Cone, Guam and American Samoa. Then Guam U. S. N. The entire series, when completed, will have cost a million dollars and each group of towers as well as the spires will crown a palm-clad hill of Lu- fifty-odd small stations co-operating with on. And the Luzon station in its turn the series will be equipped with special can fire the messages as far as central distress receivers kept as eternally alive

ened nations of the world are next month miles extending from central India to a mark that is narrow and straight. This body will be known as the Internation Radio-Telegraphic Convention, and it will sit in London. President Taft will send



## Mothers' Day, New With Us, But Old in England

terference have failed.

of the Mothers Day International Asso- ones for themselves. Whatever the cause They say that long ago an honest old coubados, Australia, Africa, Madagascar and Palestine.

for its endurance as truly as for its sweetness, and such may be said of mother's love. Probably it is the novel-

era. In England, where the rules and goodles. customs of the established church have tied in a cloth and boiled several hours. at faithful old Sim, who returned the ever been a binding tie upon the people. Then it was taken out, brushed over with compliment by applying a besom to the cessful home garden," said Mr. Beattie most of the holidays have been the out- egg and baked. On account of all of this head and shoulders of his spouse. Just recently. "A thorough irrigation—not a most or the nonarys nave need the nonary nave need the nonary nave need the nonary needs of religious observances; and so free the nonary needs of the season of the seaso

Usually the children took little presents, to offer their loved ones. The sweet, spicy, sturdy flower is noted called. The excitement of procuring some forty days of the church season remained The harshness and monotony of life in were made especially for the occasion. crust.

The outer crust, which was made of the So far so well, as both were pleased with olden times was relieved in many simple finest of flour, and colored a deep yellow their plan. But when the cake had been and homely ways, which originated numer- with saffron, was filled with a material of mixed a family quarrel ensued, for Sious affectionate customs, since crowded very rich plum cake, thick in its generous mon wanted it boiled and Nellie insisted out by the ambitious strugglings of a new quantity of candied lemon peel and other that it should be baked. Finally the old

of the Mothers Day International Asso-of separation, nothing hindered the re-ple whose Christian names were Simon union on Mothering Sunday, for neither been bettered by the ready response of schoolmaster, foreman nor employer of those in other countries to look upon to- any rank could withhold his consent from at about Easter they gathered their sons day as a compliment to mother. Origi- allowing those in his charge or service and daughters under their old roof. One were anxious as to what they would have

The write carnation, chosen to symthe write carnation, chosen to symthe write carnation, chosen to symthe bolize this special Sunday, is generally such as cakes or trinkets, on this trip
to a depth of four or five inches. In the
the write carnation, chosen to symthe same inches apart. The same inches apart.

Then they discovered that some of the agricultural possibilities. He pictures the sized one, a portion of it may be planted
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to a depth of four or five inches. In the five inches are the five inches. In the five inches are the considered a most appropriate flower, when they went "mothering," as it was time been converted into bread during the fence covered with the blooming vine of varieties of vegetables grown in the frame or bed in the garden, except that come large enough for use. A much bet- autumn or at some time during the fence covered with the blooming vine of remaining parts. novel or surprising gift for mother in the pan. Nellie, who was very frugal, brightened the lives of the young stripthought that wasting anything was a later perfection when the beans may be walk leading from the house to the gate in the window box. By planting mother's love. Probably it is the novelty of honoring our maternal parents with
the outer's day that has given the plan
its thrilling growth in the United States,
but in England this respect has been
shown for over two centuries, as "Mothering Sunday" across the sea is an observance of ancient origin.

The outer of the yard straint rows the sedengs will be more easily as the sedes. After the seeds are solved to the yard straint rows the sedengs will be more easily as the entire plant for use.

In section the yard straint rows the sedengs will be more the yard straint rows the sedengs will be more the yard straint rows the sedengs will be more the yard straint rows the sedengs will be more the yard straint rows the sedengs will be more the yard straint rows the sedengs will be more the yard straint rows the sedengs will be more the yard straint rows the sedengs will be more the yard straint rows the sedengs will be more the yard straint rows the sedengs will be more the value of trope cake for the expected guests. Simon, cake for the expected guests. Simon, cake for the expected guests. Simon, cake for the expected guests single the straining portion of dough as a part of a cake for the expected guests. Simon, cake for the expected guests. Simon, cake for the expected guests. Simon, who readily agreed that the idea was a sumbroken as posible. The various and cultivating produce a crop for a family of four or grown of the straining portion of dough as a part of a coked. In fact, he wonders how he could as unbroken as posible. The various and cultivating produce a crop four or the straining portion of dough as a part of a coked. In fact, he wonders how he could as unbroken as posible. The various and cultivating produce a crop four or the straining portion of dough as a part of a coked. In fact, he wonders how he could as unbroken as portion of four or grown or the fifteen the fifteen the fifteen the four distriction of the sed bed in the four or the coked. In fact, he wonders how he could destend the four t from about 75 cents to nearly \$5 in our part of a cake to surprise those who manmoney, were rich and expensive, and they aged to cut their way through the outer

> couple came to blows. Then honest Nell When this mixture was prepared it was rose and threw the stool she had sat on

## in such a short time. It is reasonable to believe that even Miss Anna Jarvis of Philadelphia, the founder and president of the Mathem The Internal people disagree with the Mathem The Internal people disagree with seemed deserted after the younger generation left the old homes to make new the name in a more internal people disagree with this story, for they explain the origin of the Mathem The Internal Property of the I IN YOUR OWN BACK YARD Failure to thin plants properly will invariably result in the production of an "Radishes, lettuce, onions, lima beans, bundled of these relates are sufficient to

comes into the hearts and nating in America, the idea has traveled the pleasure of making their annual year as the Lenten season was just endand "dig in the ground." home the clothes must of necessity be
and taken root in parts of Alaska, Kovisit to their own homes on that Sunday. ing and the old couple were preparing for Nearly every householder, as he conthe coming visit of their children they realizes, as never before, its splendid If the yard, however, is a fairly goodthe lima bean and dwells fondly upon its "In a well arranged back yard the after all only a "city back yard."

And there are farming possibilities in the average yard of a Washington home, or so it is claimed by many gardeners

eral inches apart and running parallel to of the seed bed is not too wet it should cultivation. The onion sets should be well firmed or pressed down before planted about an inch deep and in drills of the yard can be planted in vegetables, laying off and marking for sewing the twelve to eighteen inches apart and two leaving only sufficient room to walk between the rows while cultivating the soil. covered, the surface should again be beans may be planted about an inch deep and in drills of the yard can be planted about an inch deep and in drills of the yard can be planted about an inch deep and in drills of the yard can be planted about an inch deep and in drills of the yard can be planted about an inch deep and in drills of the yard can be well firmed by many are much seeds. After the seeds are sown and to three inches apart in the row. Lima garden will yield a return ten to afteen beautiful they are much and location if devoted to general farm and horticulturists. Among them is William R. Beattle, assistant horticulturist

little beauty may be added to the garden depth to which seeds should be planted.

more useful than the morning-glory and crops. A half acre devoted to the various with the kind of seed and, honeysuckle vines that decorate so many by the cultivation of rose bushes or any for it varies with the kind of seed and, honeysuckle vines that decorate so many by a family with \$100 worth of versians.

the advent of spring arrangement of a back yard," continued Mr. Beattie. practical disadvantages to a yard that is folk" an impulse to get out When the family laundry is done as

remaining part.

on Mothering Sunday. covered with the fertilizer."

In the south of England parents who In sowing the seeds Mr. Beattle advostill anxiously await the reunions of their cates a plan that is humorously exfamilites on Mothering Sunday prepare a pressed in an old saying well known

> thinning the rows of seedlings in the garden the best plants should be allowed to remain, but due consideration should be given to the matter of proper spacing. The space of th inferior cro

of the bureau of plant industry.

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Only a few hours' labor each week is necessary for the cultivation of a successful home garden," said Mr. Beattle

Dy the cultivation of rose bushes or any for it varies with the kind of seed and condition of the kind of seed and condition of the soil. When planting seeds in boxes or ather a useless waste of ground, for limation soil. When planting seeds in boxes or ather a useless waste of ground, for limation soil. When planting seeds in boxes or ather a useless waste of ground, for limation soil. When planting seeds in boxes or ather a useless waste of ground, for limation soil. When planting seeds in boxes or ather a useless waste of ground, for limation soil. When planting seeds in boxes or ather a useless waste of ground, for limation soil. When planting seeds in boxes or ather a useless waste of ground, for limation soil. When planting seeds in boxes or ather a useless waste of ground, for limation soil. When planting seeds in boxes or ather a useless waste of ground, for limation soil. When planting seeds in boxes or ather a useless waste of ground, for limation soil. When planting seeds in boxes or ather a useless waste of ground, for limation soil. When planting seeds in boxes or ather a useless waste of ground, for limation soil. When planting seeds in boxes or ather a useless waste of ground, for limation soil. When planting seeds in boxes or ather a useless waste of ground, for limation soil. When planting seeds in boxes or ather a useless waste of ground for limation soil. When planting seeds in boxes or ather a useless waste of ground for limation soil. When planting seeds in boxes or ather a useless waste of ground for limation soil. When planting seeds in boxes or ather a useless waste of ground for limation soil waste soil. When planting seeds in boxes or ather a useless waste of ground for limation soil waste soil. When planting seeds in boxes or ather a useless waste of ground for limation soil waste soil waste soil waste soil waste soil waste soil waste

dropped and the cake came to be known back yard. If the ground is in fairly plants are required for setting in the gar- nured the previous year is most satisfac-"simnel." Later the habit sprang up good condition, the clay soil need not be den they should be thoroughly acclimate tory. Peas should be planted in the botchildren to take "simnels" home removed, but only spaded up and well ed to outdoor conditions and can be tom of a furrow six inches in depth, and transplanted with but few losses.

Mothers' day is to be general throughout our land, for nearly every state governor the second Stunday in the second Stunday in May, shall apart and celebrated in tribute to others of the nation. Perhaps no movement has ever won its way a part and celebrated in a special case." but as time went base ver won time. It is reasonable.

parsley, garden beets and tomatoes are perhaps the most profitable crops for the supply the ordinary family. home garden. They occupy very little "Garden seeds should always be sown ground and are surely more palatable minds of even the "city devoted entirely to home-gardening in straight rows, regardless of where the when fresh. Lettuce thrives best during "The roots should be transplanted durplanting is made. If a window box is the early spring or late autumn and will employed for starting early plants in the not withstand the heat of summer. In templates his twenty by thirty back yard, of walking to and fro in hanging the house, the soil should be well firmed and tender, it is necessary to force the back yard the plants should be set about clothes may mean ruination to the crop. then laid off in straight rows, about two growth. Often in growing lettuce in the one foot apart each way. In setting the inches apart. The same method holds home garden the seeds are sown broad- asparagus the crowns should be covered the rows should be farther apart than ter method is either to thin or transplant the bed should receive a dressing of main the window box. By planting in the seedlings and allow the plants to nure.

form rather compact heads and then cut

other vegetables may be started in the should supply a good-sized family. Every house and successfully transplanted to household should have a parsley bed, and

the seeds covered with not more than two

'After the plants attain a height of

ing the autumn or early spring. In the order that the leaves may be crisp and necessarily limited garden space of a

inches along a trellis or the fence; while and location if devoted to general farm

home garden is the fact that the veretables are not subjected to exposure in the For this reason there was a popular habit in more remote times biblical pictures besom and broom, until finally the new be careful when planting his crops to of sending sons and daughters away to sending sons and daughters away to sending schools as "Dotheboys Just how the name "simnel" came to done.

Hall," immortalized by Dickens, and so be applied to the land im- way whereby clean, fresh produce may be careful when planting the cultivate his little farm and he should not be seriously ter should not be applied to the land im- way whereby clean, fresh produce may be careful when planting his crops to rich, thick soil. Two wagon loads of well checked in their growth. After a few mediately before planting, as they will secured. The home vegetable garden is of sending sons and daughters away to were used as the top decoration.

produce of confectionery was declared see that the soil is rich and free from any decayed stable manure is, perhaps, the days it will be possible to leave the have a tendency to produce too great a worthy of increased attention, and a stones, broken glass or other material.

Hall, immortalized by Dickens, and so be applied to these delicacies of Mother
All those who tested the cake enjoyed "A great deal can be said as to the is a sufficient quantity for the average and on mild nights. By the time the pods. In fact, land that has been well ma
should not be applied to the land im
way whereby clean, fresh produce may be careful when planting his crops to rich, thick soil. Two wagon loads of well checked in their growth. After a few mediately before planting, as they will secured. The home vegetable garden is of the land in their growth. After a few mediately before planting, as they will secured. The home vegetable garden is of the land in their growth. After a few mediately before planting, as they will secured. The home vegetable garden is of the land in their growth. After a few mediately before planting, as they will secured. The home vegetable garden is of the land in the land in t